

Fig. 1

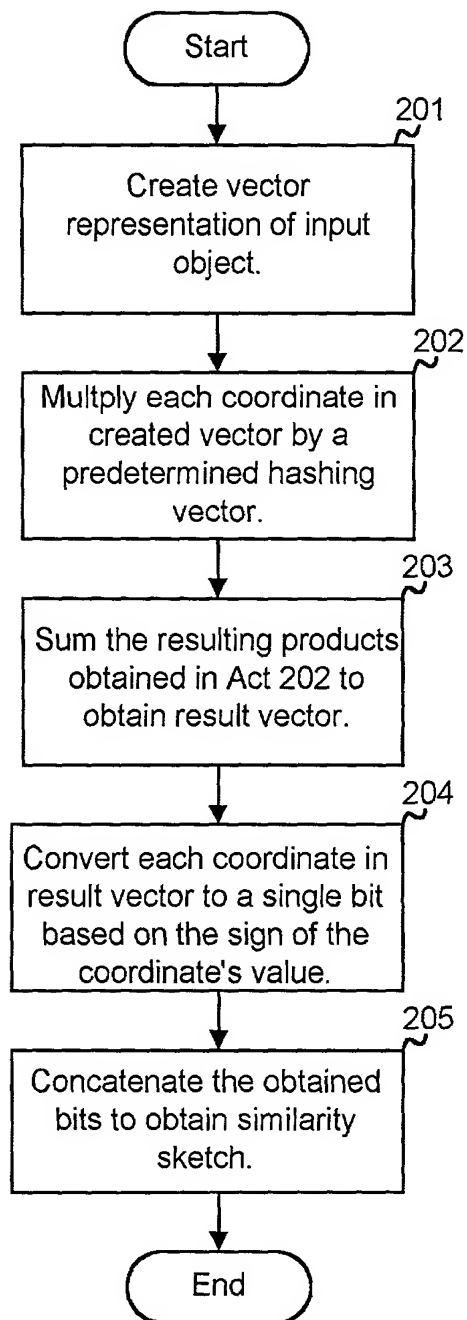


Fig. 2

coordinate	value
four	1
score	1
and	1
seven	1
years	1
ago	1

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Fig. 3A

coordinate	value
four	0.3
score	0.4
and	0.05
seven	0.3
years	0.4
ago	0.2

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Fig. 3B

Coordinate	Value	Hashing Vectors
four	0.3	(-4, 2, 6) ~402
score	0.4	(8, -9, -4) ~403

$$\begin{aligned}
 \text{Result Vector} &= (-4 \times 0.3, 2 \times 0.3, 6 \times 0.3) \\
 &\quad + \\
 &\quad (8 \times 0.4, -9 \times 0.4, -4 \times 0.4) \\
 &= (2.0, 3.0, 0.2)
 \end{aligned}$$

$$\text{Similarity Sketch} = 111$$

Fig. 4